

operation of the test signal onto the trial writing region A disposed on the innermost peripheral side of the disk 3 and reproducing operation of the recorded test signal, and a recording operation of the test signal onto an outer peripheral region F disposed outside the read-out region E and reproducing operation of the recorded test signal. The operation is described in detail below.

The laser output is set after the recording/reproducing operation of the test signal onto the trial writing region A and outer peripheral region F, and a recording operation of the signal onto the program region D of the disk is begun according to the set laser output. During the signal recording operation, changes in the light reflected by the disk 3 are monitored, and the value of the driving current supplied to the laser element from the laser driving circuit 12 is adjusted accordingly to thereby the laser output so as to maintain an optimum output for recording.

The optical disk recording/reproducing apparatus according to the present invention can be configured as described above. Next, a signal reproduction operation by the circuit configured as described above will be described. When an operation switch for reproduction disposed in the operation switch 9 is operated, a control operation for the reproducing operation by the system control circuit 10 is started. When the reproducing operation is performed, the driving current with the laser output for performing a reading operation of the signal obtained therefrom is supplied to the laser element

driven, or controlled at a constant angular speed according to a rotation speed for actually performing the recording operation.

The test signal is recorded in the trial writing region A of the disk 3 in a driven state at the rotation speed by changing the laser output in the continuous or stepwise manner. Moreover, the recorded signal is reproduced, and the test signal generated in an optimum state is detected from the reproduced test signals. Furthermore, the laser output value corresponding to the reproduced signal detected as an optimum signal is set as an optimum laser output value on the inner peripheral side. The laser output value set in this manner is stored in the memory circuit incorporated in the system control circuit 10 as the laser output value for the inner peripheral side.

After completion of the setting operation of the laser output with respect to the inner peripheral side as the object, the optical pickup 4 is moved to the outer peripheral side, the test signal is recorded in the outer peripheral region F of the disk 3 by changing the laser output in a continuous or stepwise manner, the recorded signal is reproduced, and the test signal reproduced in the optimum state is detected from the reproduced test signals, all while maintaining the rotation speed of the disk 3. Moreover, the laser output value corresponding to the reproduction signal detected as the optimum signal is set as the optimum laser output value on the outer peripheral side. The laser output value set in this